1. Record Nr. UNINA9910481968003321

Titolo	Bio-design and manufacturing
Pubbl/distr/stampa	[Singapore] : , : Springer Singapore [Hangzhou] : , : Zhejiang University Press, , [2018]-
ISSN	2522-8552
Descrizione fisica	1 online resource
Soggetti	Biomedical engineering Biomedical materials Mechanical engineering Three-dimensional printing Biomedical Engineering Biocompatible Materials Bioprinting Printing, Three-Dimensional Enginyeria biomèdica Materials biomèdics Enginyeria mecànica Impressió 3D Periodical Periodicals. Revistes electròniques.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Refereed/Peer-reviewed
Sommario/riassunto	BDM reports new research, new technology and new applications in the field of biomanufacturing, especially 3D bioprinting. As an interdisciplinary field, topics of this journal cover tissue engineering, regenerative medicine, mechanical devices from the perspectives of materials, biology, medicine and mechanical engineering, with a focus on manufacturing science and technology to fulfil the requirement of

bio-design.

2. Record Nr. UNINA9910557716703321

Autore	Lee Bae Hwan
Titolo	Neuroprotection: Rescue from Neuronal Death in the Brain
Pubbl/distr/stampa	Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021
Descrizione fisica	1 online resource (408 p.)
Soggetti	Research & information: general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Dear Colleagues, The brain is vulnerable to injury. Following injury in the brain, apoptosis or necrosis may occur easily, leading to various functional disabilities. Neuronal death is associated with a number of neurological disorders including hypoxic ischemia, epileptic seizures, and neurodegenerative diseases. The brain subjected to injury is regarded to be responsible for the alterations in neurotransmission processes, resulting in functional changes. Oxidative stress produced by reactive oxygen species has been shown to be related to the death of neurons in traumatic injury, stroke, and neurodegenerative diseases. Therefore, scavenging or decreasing free radicals may be crucial for preventing neural tissues from harmful adversities in the brain. Neurotrophic factors, bioactive compounds, dietary nutrients, or cell engineering may ameliorate the pathological processes related to neuronal death or neurodegeneration and appear beneficial for improving neuroprotection. As a result of neuronal death or neuroprotection, the brain undergoes activity-dependent long-lasting changes in synaptic transmission, which is also known as functional plasticity. Neuroprotection implying the rescue from neuronal death is now becoming one of global health concerns. This Special Issue attempts to explore the recent advances in neuroprotection related to

the brain. This Special Issue welcomes original research or review papers demonstrating the mechanisms of neuroprotection against brain injury using in vivo or in vitro models of animals as well as in clinical settings. The issues in a paper should be supported by sufficient data or evidence. Prof. Bae Hwan Lee Guest Editor